



# Aarav Todd

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## SUMMARY

Dedicated Controls Engineer with over 5 years of hands-on experience in industrial automation, specializing in the design, programming, and optimization of advanced machinery and equipment. Proven expertise in PLC programming and troubleshooting, particularly on Allen-Bradley and Siemens platforms. Strong background in electrical control systems design, project management, and collaborative problem-solving within cross-functional teams. Committed to driving continuous improvements and enhancing operational efficiency for successful project executions. Eager to contribute technical skills and innovation to support new challenges.

## EXPERIENCE

### Controls Engineer

June 2021 - Present

Tech Innovations Inc.

Ann Arbor, MI

Manages control system projects for various industrial clients, ensuring excellence in execution and outcomes throughout all phases.

- Engineered custom automation solutions, integrating cutting-edge control technologies that significantly improved operational performance.
- Performed detailed PLC programming using Allen-Bradley systems, drawing upon industry standards for enhanced reliability and security.
- Meticulously developed precise controls documentation, including BOMs, enhancing clarity and project alignment.
- Collaborated seamlessly with project managers, effectively meeting client deadlines while maintaining quality assurance processes.
- Led system testing initiation and completed customer acceptance protocols, achieving full satisfaction with each deployment.
- Provided essential training and support to clients during installation, fostering trust and ensuring smooth transitions.

### Controls Engineer

January 2018 - May 2021

Automation Dynamics LLC

Lansing, MI

Oversaw the development of efficient control systems across manufacturing applications, ensuring compliance with safety and operational standards.

- Directed the creation of comprehensive electrical systems, ensuring adherence to regulatory frameworks and engineer best practices.
- Pioneered advancements in industrial networking, utilizing EtherNet/IP to enhance data flow and communication between machines.
- Executed systematic troubleshooting for malfunctioning automated equipment, achieving commendable reductions in downtime.
- Reviewed specifications attentively, delivering customized project solutions that boosted overall client program success and satisfaction.
- Implemented strategic control enhancements reducing operational costs, showcasing commitment to continuous improvement.
- Cultivated interdepartmental collaborations, improving project efficiencies through shared resources and expertise.

## LEADERSHIP & AWARDS

- Recognition for exceptional performance in project delivery, awarded Employee of the Month at Tech Innovations.
- Received an Innovator Award for introducing advanced automation methods that enhanced project efficiencies.

## EDUCATION

### Bachelor's Degree in Electrical Engineering

2016

University of Michigan GPA: 3.7

Ann Arbor, MI

**Coursework:** Circuit Analysis, Control Systems, Digital Electronics, Automated Systems

## CERTIFICATIONS

- Certified Automation Professional (CAP) 📅 2022
- PLC Programming Certification 📅 2021

## TECHNICAL SKILLS

- **Control System Design:** AutoCAD, EPLAN, Schematics
- **PLC Platforms:** Allen-Bradley, Siemens, Schneider
- **Networking Protocols:** EtherNet/IP, DeviceNet, Modbus
- **Manufacturing Equipment:** Conveyors, Robotics, CNC Machines
- **Documentation Practices:** BOMs, Functional Specs, Project Records

- **Project Management Tools:** MS Project, Trello, JIRA
- **System Testing Techniques:** Debugging, Commissioning, Quality Assurance
- **Client Collaboration:** Requirements Gathering, Feedback Sessions, Training
- **Safety Compliance Standards:** ANSI, ISO, OSHA
- **Continuous Improvement Practices:** Lean Manufacturing, Six Sigma, Kaizen

**SKILLS**

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- |                   |                         |                            |                  |
|-------------------|-------------------------|----------------------------|------------------|
| • PLC Programming | • Industrial Networking | • Problem-Solving          | • Documentation  |
| • HMI Development | • Project Management    | • Electrical Controls      | • Systems Design |
| • AutoCAD         | • Troubleshooting       | • Machine Safety Standards | • Commissioning  |
| • EPLAN           | • Communication         | • Training                 | • Testing        |

**PROFESSIONAL AFFILIATIONS**

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- Active member of the Society of Manufacturing Engineers, connecting with industry professionals for knowledge sharing.
- Participant in local engineering community outreach programs, promoting STEM careers among high school students.

**LANGUAGES**

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- English (Native)
- Spanish (Intermediate)

**ADDITIONAL INFORMATION**

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**Work Status** : Authorized to work in United States. No sponsorship required.

**REFERENCES**

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AVAILABLE ON REQUEST